

IN THE CLAIMS

Please amend the claims as follows:

1-4. (Canceled)

5. (Currently Amended) A cooling system for a main injector of a two-headed combustion chamber of a turbomachine, said main injector comprising an annular piece provided with a first injection orifice for discharging a primary fuel into said combustion chamber, said primary injection orifice being fed upstream from a first feed tube and having an endpiece surrounding said annular piece and provided with a second injection orifice for discharging a secondary fuel into said combustion chamber, said second injection orifice being fed upstream from a second feed tube,

wherein said endpiece includes an annular channel of depth that extends beyond said first injection orifice, said annular channel having a tubular separation element therein to define first and second coaxial annular spaces on either side of said element for cooling fluid flow, cooling fluid passing between said two annular spaces via through orifices formed in said separation element at a downstream end of said element resting on the bottom of the channel, ~~and~~

wherein said tubular separation element is fixed upstream to a third tube surrounding said first and second feed tubes and co-operating firstly with said second feed tube to define a first annular duct which brings the cooling fluid from a fluid source via said first annular space to said endpiece, and secondly with an outer wall of the injector to define a second annular duct which returns the cooling fluid to said fluid source via said second annular space, and

Application Serial No.: 09/988,522
Amendment After Final dated March 30, 2004
Reply to Office Action dated December 30, 2003

wherein said tubular separation element is brazed to said third tube which is
connected upstream to the injector body.

6. (Original) A cooling system according to claim 5, wherein said first and second feed tubes and said third tube are coaxial.

7. (Canceled)

8. (Original) A main injector for a two-headed combustion chamber of a turbomachine including a cooling system according to claim 5.